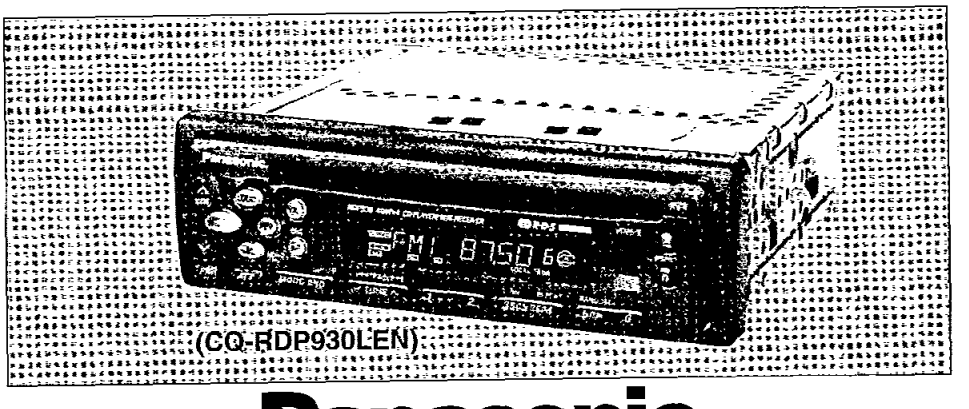
Operating Instructions
Bedienungsanleitung
Manuel d'instructions
Gebruiksaanwijzing
Bruksanvisning
Manuale di istruzioni
Manual de Instrucciones

High-Power CD Player/RDS Receiver
RDS CD-Tuner; High Power
Récepteur CD Haute Puissance/Récepteur RDS
High-Power RDS radio/CD-speler
Hög uteffekts CD/RDS radio
Sinto/lettore CD High Power con RDS (AUTORADIO)
Sintonizador-reproductor de CD da alta potencia con RDS

CQ-RDP930/RDP920LEN


(CQ-RDP930LEN)

Panasonic

Before operating this set, please read these instructions completely.
Bitte lesen Sie diese Bedienungsanleitung vor der Inbetriebnahme aufmerksam durch.
Nous vous recommandons de lire attentivement ces instructions avant d'utiliser cet appareil.
Lees deze gebruiksaanwijzing in zijn geheel door alvorens dit apparaat in gebruik te nemen.
Läs noga dessa anvisningar före apparatens användning.
Prima di adoperare l'apparecchio, vogliate leggere attentamente le istruzioni.
Antes de poner en marcha el aparato, sírvase leer atentamente estas instrucciones.

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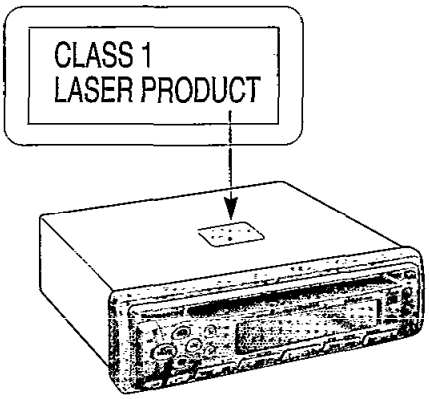
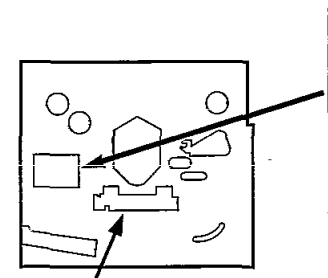
- **Label Indications and Their Locations**
- **Warnetiketten und deren Anbringungsort**
- **Indications portées les étiquettes et emplacement**
- **Aanduiding van de labels en hun plaats**
- **Varningsskyltarna, och deras placering**
- **Indicazioni delle etichette e le loro posizioni**
- **Indicaciones de las etiquetas y su ubicación**

- APPAREIL À LASER DE CLASSE 1
- KLASS 1 LASER APPARAT
- LUOKAN 1 LASERPLAITE

VORSICHT! UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET IST, NICHT DEM LASERSTRAHL AUSSETZEN.





DANGER! Invisible laser radiation when open. Avoid direct exposure to beam.
ADVARSEL! Usynligt laserlys udstråles ved åbning. Undgå direkte bestråling.
VARO! Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä kasto sätteeseen.
VARNING! Osynlig laserstrålning när denna del är öppnad och spärren är urkopplad. Betrakta ej strålen.
ADVERSEL! Usynlig laserstråling når deksel åpnes og sikkerhedslås brytes. Unngå eksponering for strålen.

- Caution Mark
- Warnzeichen
- Marque d'avertissement
- Waarschuwingsteken
- Varningsmärke
- *Marca di precauzione*
- Marka de advertencia

- Deck Ass'y (Upper Side)
- Geräteansicht (Oberseite)
- Assemblage de la table lecture (Côté supérieur)
- Dekkbevestig (Bovenkant)
- Däcksenhet (Topp)
- Gruppo della piastra (Lato superiore)
- Conjunto de la platina (Lado superior)

Precautions (ISO connector)

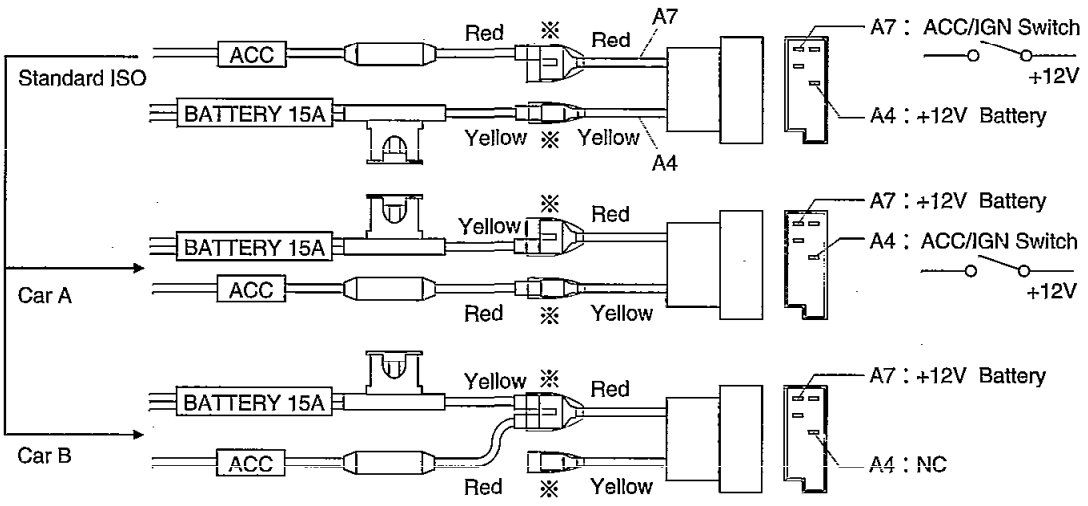
- Wiring for the power connector conforms to the arrangement of standard ISO connectors.
- in case of some car types, the arrangement of connector may differ from the standard ISO as shown in Table 1, even though ISO connectors are adapted.

Table 1

Fig. 1 Pin No.	A4	A7
Car for standard ISO	Battery (permanent 12 V supply)	"IGN" or "ACC" (switched 12 V supply)
In case of Car type A	"IGN" or "ACC" (switched 12 V supply)	Battery (permanent 12 V supply)
In case of Car type B	No Connection	Battery (permanent 12 V supply)

- Make sure the ISO connector arrangement in your car side is as same as the standard ISO. (Table 1, Fig. 1)
- In case of arrangement for Car type A or B, change connections of the red/yellow leads at the re-connectable joint (※) as shown in Fig.1.

Fig.1



- After fix the connections, the part (※) should be insulated with electrical tape to keep away from unit damage.

ISO-Anschlußschema - Achtung: Sehr wichtig

- Die Verdrahtung des mitgelieferten Stromkabels entspricht der Anordnung der normalen ISO-Steckverbinder.
- Bei einigen Autotypen kann es vorkommen, daß die Verdrahtung anders als die aus der Tabelle 1 ersichtlichen ISO-Anordnung ist, obwohl ISO-Steckverbinder verwendet werden.

Tabelle 1

Abb. 1, Stift Nr.	A4	A7
Auto für normale ISO-Anordnung	Batterie (ständige 12V-Stromversorgung)	"IGN" oder "ACC" (umgeschaltete 12V-Stromversorung)
Beispiel Auto A	"IGN" oder "ACC" (umgeschaltete 12V-Stromversorgung)	Batterie (ständige 12V-Stromversorgung)
Beispiel Auto B	Kein Anschluß	Batterie (ständige 12V-Stromversorgung)

- Die Daten überprüfen, um sicherzustellen, daß die Anordnung der ISO-Steckverbinder auf der Autoseite die gleiche ist wie die normale ISO-Anordnung (Tabelle 1, Abb. 1).
- Im Falle der Anordnung für Auto A oder B die Anschlüsse der rot/gelben Kabel am Übertragungs-Steckverbinderblock (※) gemäß Abb. 1 ändern.

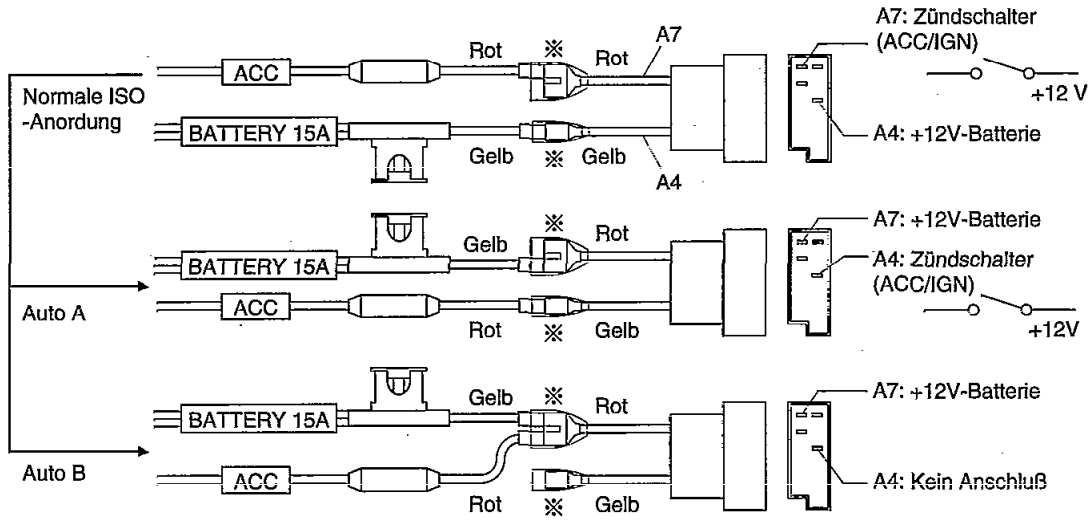


Abb. 1

- Nach der Verkabelung sollte unbedingt der durch ※ gekennzeichnete Teil mit Hilfe von Isolierbändern o.ä. isoliert werden.

Précautions (Connecteur ISO)

- Le câblage pour le cordon d'alimentation prévu en accessoire se conforme à l'alignement des connecteurs standard ISO.
- Pour certains types de véhicules, une partie de câblage peut différer de l'alignement standard ISO comme l'indique le Tableau 1, même si les connecteurs ISO sont adaptés.

Tableau 1

N° de broche sur la Fig. 1	A4	A7
Véhicule pour l'alignement standard ISO	Batterie (alimentation permanente en 12 V)	"IGN" ou "ACC" (alimentation en 12 V sélectionnée)
Exemple de véhicule A	"IGN" ou "ACC" (alimentation en 12 V sélectionnée)	Batterie (alimentation permanente en 12 V)
Exemple de véhicule B	Absence de connexion	Batterie (alimentation permanente en 12 V)

- Vérifier les données pour s'assurer que l'alignement de connecteur ISO du côté véhicule est identique à celui standard ISO (Tableau 1, Fig. 1).
- En cas d'alignement pour le véhicule A ou B, changer les connexions des conducteurs rouges/jaunes au bloc connecteur de transfert (※) comme le montre la Fig. 1.

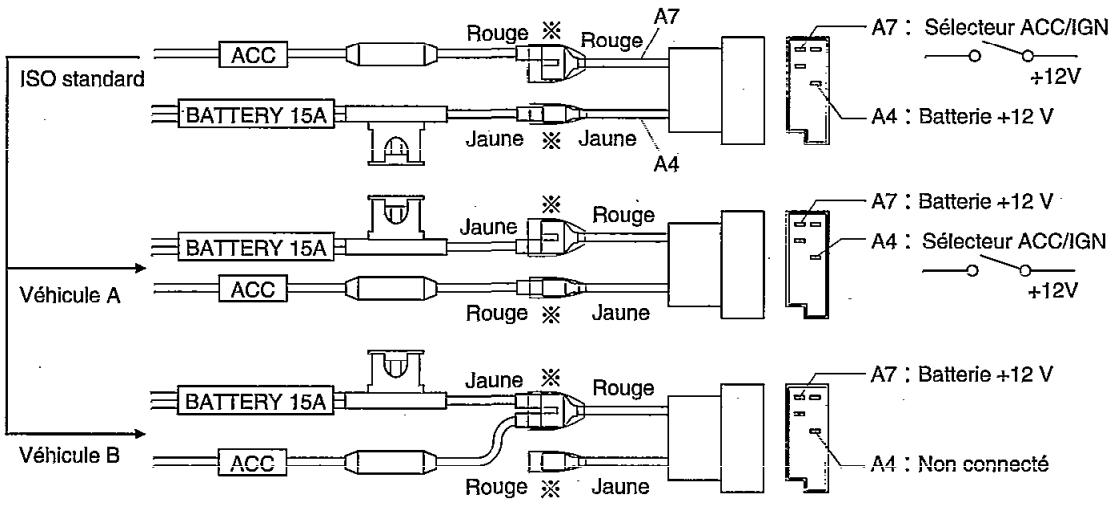


Fig.1

- Après les opérations, les parties marquées par un astérisque (※) doivent être isolées sans faute en utilisant des rubans isolants ou des matériaux similaires.

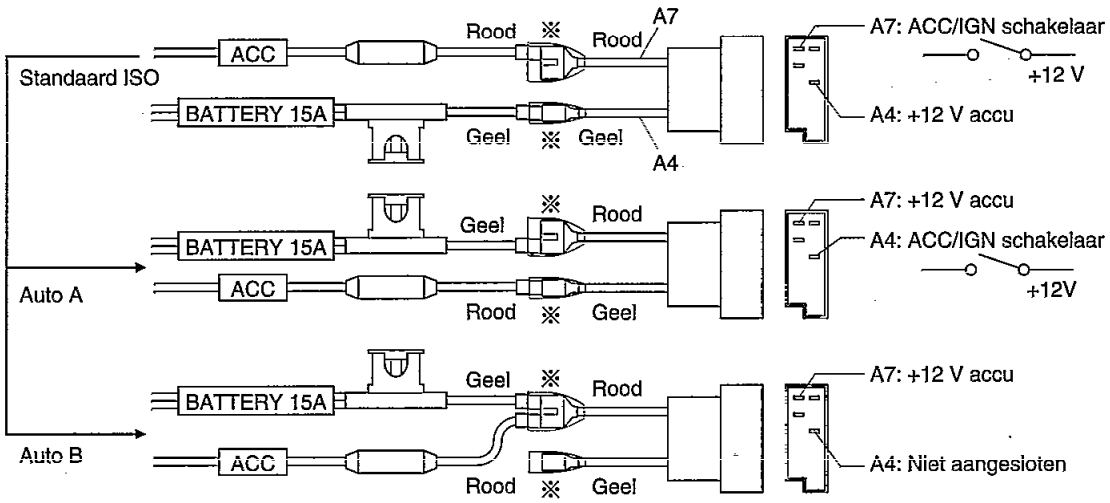
Belangrijk (ISO aansluiting)

- Bedrading voor de spanning voldoet aan de richtlijn voor standaard ISO aansluitingen.
- Bij bepaalde automerken verschilt de opstelling van de aansluitingen mogelijk met de standaard ISO aansluiting zoals in tabel 1 wordt aangegeven, ookal worden ISO aansluitingen gebruikt.

Tabel 1

Afb. 1 Pennummer	A4	A7
Auto voor standaard ISO aansluiting	Accu (kontinu 12 V voeding)	"IGN" of "ACC" (geschakeld 12 V voeding)
Voorbeeld auto A	"IGN" of "ACC" (geschakeld 12 V voeding)	Accu (kontinu 12 V voeding)
Voorbeeld auto B	Geen aansluiting	Accu (kontinu 12 V voeding)

- Kontroleer de gegevens dat de ISO aansluiting van de auto hetzelfde is als de standaard ISO aansluiting (Tabel 1, Afb. 1).
- In geval van auto A of B, verander de aansluitingen van de rode/gele draad bij het transfer-aansluitblok (※) zoals in afb. 1 wordt aangegeven.



Afb. 1

- Na uitvoering moet het met ※ gemarkeerde gedeelte worden geïsoleerd, met isolatieband of iets dergelijks.

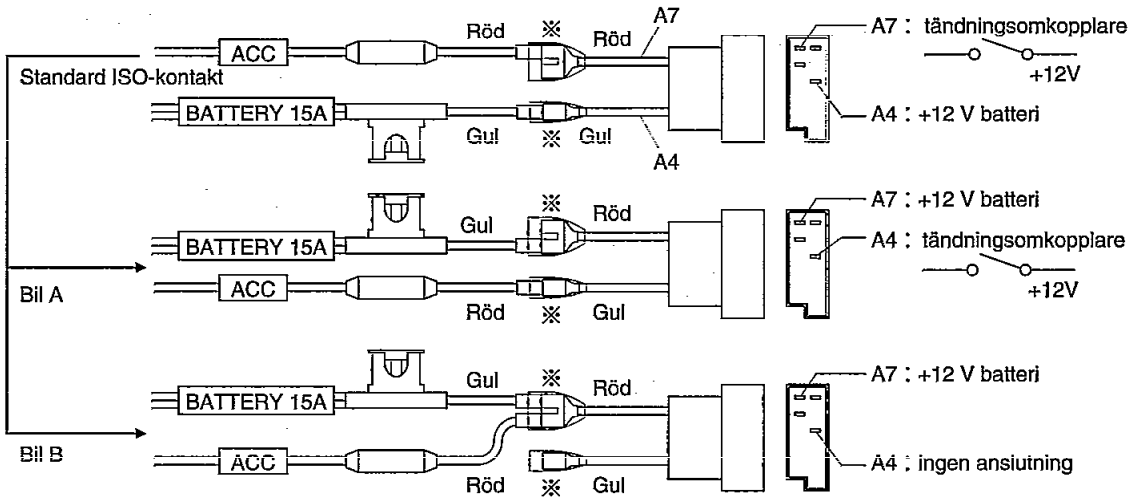
Observera (ISO-kontakter)

- Kontrollera att kablarna för tändningens strömkabel är korrekt utformade för anpassning till standard ISO-kontakter.
- I en del typer av bilar kan det hända att vissa kablar skiljer sig från anpassningen till standard ISO-kontakter på det sätt som framgår av tabell 1, även om ISO-kontakterna är anpassade.

Tabell 1

Ill. 1, pol nr.	A4	A7
Bil för anpassning till standard ISO-kontakt	Batteri (ständig, 12 V strömförsörjning)	Tändning (omkopplad, 12 V strömförsörjning)
Exempel på bil A	Tändning (omkopplad, 12 V strömförsörjning)	Batteri (ständig, 12 V strömförsörjning)
Exempel på bil B	Ingen anslutning	Batteri (ständig, 12 V strömförsörjning)

- Kontrollera data för att bekräfta att anpassningen till ISO-kontakter på bilens kablar överensstämmer med anpassningen till standard ISO-kontakter (tabell 1/ill. 1).
- Ändra den röda och den gula kabelns anslutningar till överföringskontakten (※) såsom visas på ill. 1, när anpassning för bil A eller bil B gäller.



Ill. 1

- Kontakterna märkta ※ måste alltid isoleras med hjälp av isoleringstejp eller liknande, efter slutförda anslutningar.

Precauzioni (Connettore ISO)

- Il cablaggio per il cavo di alimentazione accessoria è conforme all'allineamento dei collegamenti ISO standard.
- Per alcuni tipi di auto, l'allineamento dei connettori differire dall'allineamento ISO standard mostrato nella tabella 1, anche se sono adattati connettori ISO.

Tabella 1

N. terminale in Fig. 1	A4	A7
Auto per allineamento ISO standard	Batteria (12 V forniti continuamente)	"IGN" o "ACC" (12 V forniti a commutazione)
Esempio di auto A	"IGN" o "ACC" (12 V forniti a commutazione)	Batteria (12 V forniti continuamente)
Esempio di auto B	Nessun collegamento	Batteria (12 V forniti continuamente)

- Controllare i dati per verificare che l'allineamento connettori ISO sul lato dell'auto sia uguale all'allineamento ISO standard (Tabella 1, Fig. 1).
- Nel caso dell'allineamento per auto A o B, cambiare il collegamento dei cavi rosso/giallo al blocco connettore di transferimento (※) come mostrato nella Fig. 1.

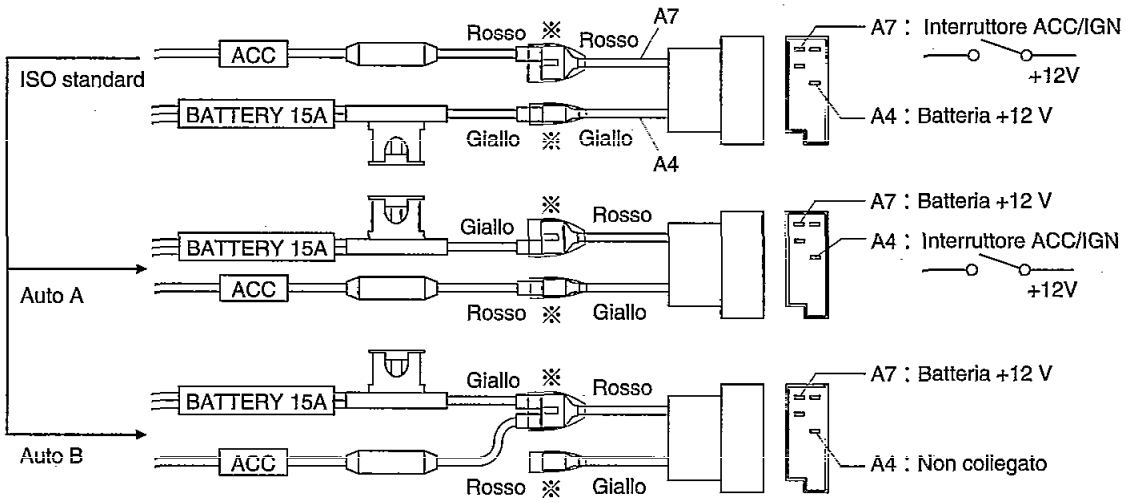


Fig. 1

- Dopo l'operazione la parte indicata da ※ deve essere assolutamente isolata, usando nastro isolante o simili.

Precauciones (Conector ISO)

- El alambrado del cordón alimentación de está de acuerdo con la alineación de los conectores normales de la ISO.
- *Para algunos tipos de carros, parte del alambrado puede ser diferente de la alineación ISO* normal como se muestra en la Tabla 1, aunque se adapten los conectores ISO.

Tabla 1

Figura 1 Clavija Número	A4	A7
Automóvil con alineación normal ISO	Batería (alimentación permanente de 12 V)	"IGN" o "ACC" (alimentación de 12 V conmutada)
Ejemplo de Carro A	"IGN" o "ACC" (alimentación de 12 V conmutada)	Batería (alimentación permanente de 12 V)
Ejemplo de Carro B	Sin conexión	Batería (alimentación permanente de 12 V)

- Verifique los datos para confirmar que la alineación del conector ISO en el lado del carro es igual a la alineación normal ISO (Tabla 1, Figura 1).
- En el caso de la alineación para el Carro A o B, cambie las conexiones de los conductores rojo/amarillo del bloque de conectores de transferencia (※) como se muestra en la Figura 1.

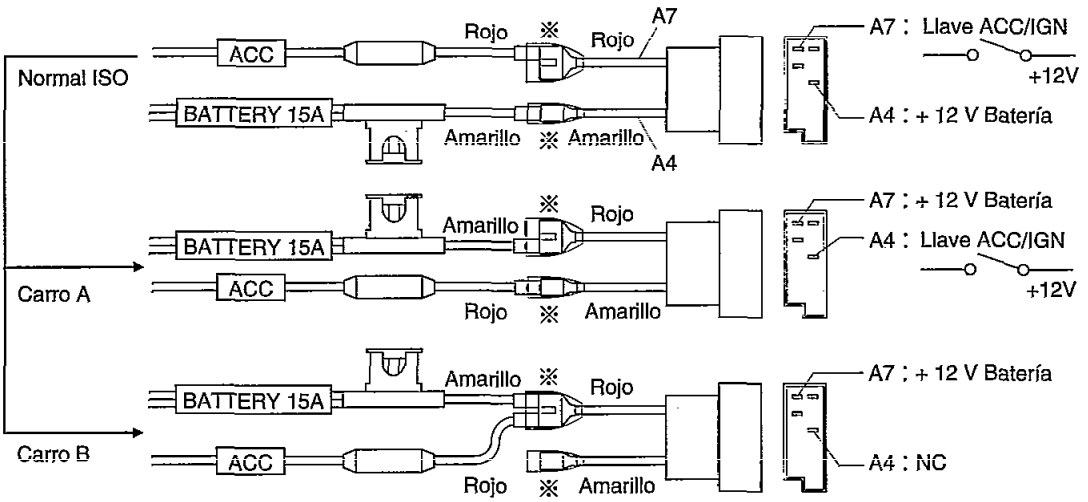


Figura 1

- Después de la conexion, las secciones que llevan la marca "※" deberán ser aisladas sin falta, usando cintas aislantes o similares.

Panasonic welcomes you to their constantly growing family of electronic products owners.
We endeavor to give you the advantages of precise electronic and mechanical engineering, manufactured with carefully selected components, and assembled by people who are proud of the reputation their work has built for our company. We know this product will bring you many hours of enjoyment, and after you discover the quality, value and reliability we have built into it, you too will be proud to be a member of our family.

Precautions

Volume Level
For your driving safety, keep the volume level low enough to be aware of road and traffic conditions.

Car Washing
To avoid electrical shorts which may cause fire, or other damage, do not expose this equipment (including the speakers and CDs) to water or excessive moisture.

Car Ventilation
If your car is parked for several hours in direct sunlight, the temperature inside the car may become very high. It is advisable to drive the car and give the interior a chance to cool down before switching the unit on.

Power Supply
This equipment is designed to be used in a car having 12-Volt negative ground battery system.

Disc Mechanism
Do not insert coins or any small objects. Keep screwdrivers and other metallic objects away from the disc mechanism and disc.

Service
This unit is made of precision parts. Do not attempt to disassemble or adjust any parts. For repair, please consult your nearest authorized Panasonic Service Center.

Note:
The preset memory is cleared to return to the original factory setting when the power connector or battery is disconnected.

Note:
This operating instruction manual is for two models CQ-RDP930LEN and CQ-RDP920LEN.
The differences between these models' are mentioned below. All illustrations throughout this manual represent model CQ-RDP930LEN unless otherwise specified.

MODEL / Operating Control	CQ-RDP930LEN	CQ-RDP920LEN
Illumination Colors	Amber	Green

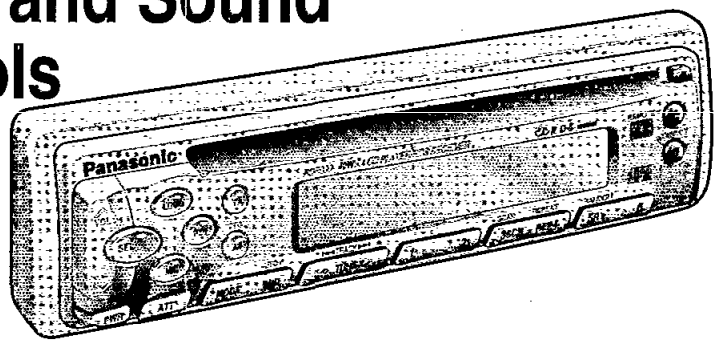
Laser Products

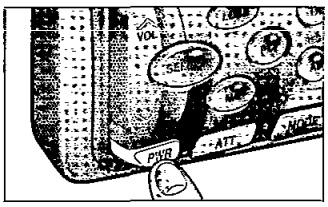
Caution:
This product utilizes a laser.
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Laser products:
Wave Length 780 nm
Laser Power No hazardous radiation is emitted with safety protection.

Do not take apart this unit or attempt to make any changes yourself.
This unit is a very intricate device that uses a laser pickup to retrieve information from the surface of compact discs. The laser is carefully shielded so that its rays remain inside the cabinet.
Therefore, never try to disassemble the player or alter any of its parts since you may be exposed to laser rays and dangerous voltages.

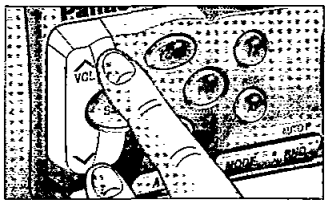
Power and Sound Controls





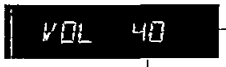
Power

If the car is not already running, turn the key in the ignition until the accessory indicator lights.
Press PWR to switch on the power.
Press and hold PWR again to switch off the power.
Note: When power is switched on for the first time, demonstration display appears. To release this display, press and hold PWR and switch power off.



Volume

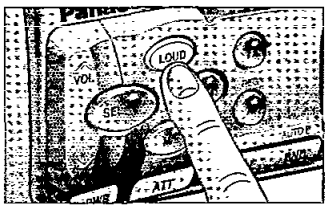
Press "VOL∧" or "∨VOL" to increase or decrease volume.



—Volume Level

0 to 40

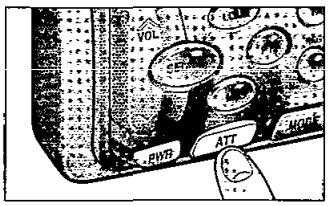
Press "VOL∧" or "∨VOL" for more than a half second to sequentially change numeric levels on the display.



Tone Enhancement

- Press LOUD to enhance bass and treble tones when listening at low or medium volume.

- Press LOUD again to cancel.

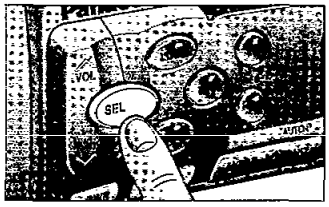


Attenuator

- Press ATT to decrease volume to about 1/10 of the previous level.

- Press ATT again to cancel.

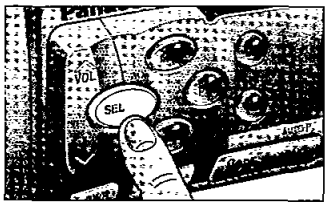
Note: This unit is equipped with anti-volume-blast circuit which serves as an automatic volume level adjuster so that you will not be deafened with sudden loud volume.
This system operates as below. When PWR is first pressed to switch on, the volume level is low. After that, the volume level gradually returns to the level when the switch is turned off.
Anti-volume-blast circuit is not effective when volume level is lower than position 20 at the display.



Changing Audio Modes

Press SEL to switch the audio mode in the following order.

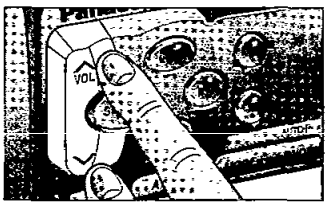
Normal Mode ➡ VOL ➡ BAS ➡ TRE ➡ BAL ➡ FAD



Bass and Treble

Press SEL to select the BASS (TREBLE) mode. Press "VOL∧" or "∨ VOL" to increase or decrease the bass (treble) response.

–12 to +12 –12 to +12



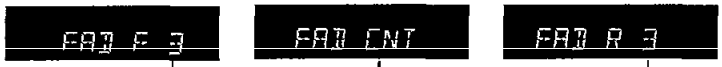
Balance

Press SEL to select the BALANCE mode. Press "VOL∧" or "∨VOL" to shift the sound volume to the right or left speakers.

1 to 15 Balance Center 1 to 15

Fader

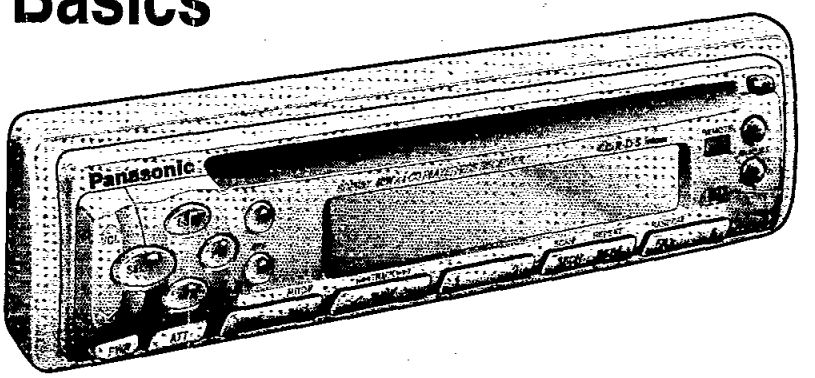
Press SEL to select the FADER mode. Press "VOL∧" or "∨VOL" to shift the sound volume to the front or rear speakers.

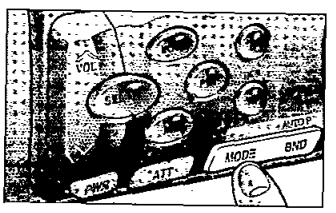


1 to 15 Fader Center 1 to 15

Note: When an audio mode (BAS/TRE/BAL/FAD) is selected but no operation is made within 5 seconds (2 seconds at VOL mode), the display will return to the normal operation (Radio, CD) mode. In such a case, press SEL again to select the control mode.

Radio Basics

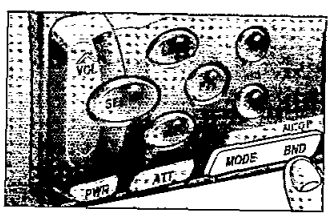




To change to Tuner Mode

Press MODE to switch the operation mode in the following order.

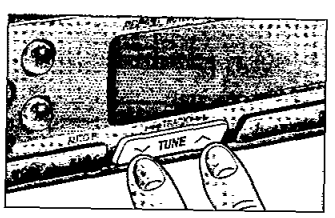
Tuner ⟷ CD Player



Selecting a Band

Press BND to select the bands in the following order.
"ST" indicator lights if the station is broadcasting in stereo.

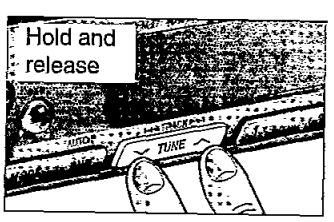
FM1 ➡ FM2 ➡ FM3 ➡ AM(LW/MW)



Manual Tuning

Press "∨TUNE" or "TUNE∧" to move to a lower or higher frequency.

Press and hold "∨TUNE" or "TUNE∧" to move to a lower or higher frequency rapidly.



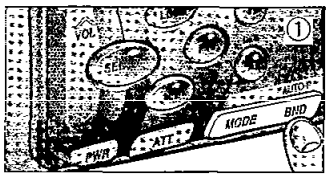
Seek Tuning

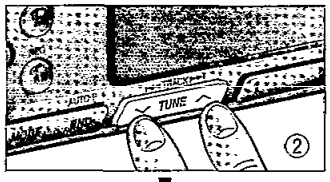
Press and hold "∨TUNE" or "TUNE∧" for more than a half second, then release. The radio automatically stops on the next station.

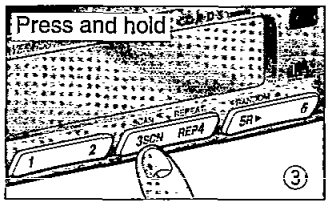
Preset Station Setting

Up to 24 stations can be preset in the station memory as follows;

FM1	FM2	FM3	AM(LW/MW)
6 stations	6 stations	6 stations	6 stations







Manual Station Preset

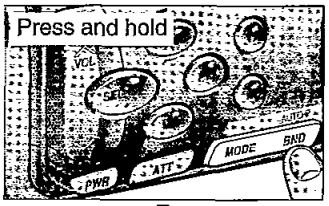
① Press BND to select a desired band.
② Use manual or seek tuning to find a station that you want to program into memory.
③ Press and hold one of the station selector buttons 1 through 6 for more than 2 seconds until the display blinks.
Repeat the process to set other stations for the FM1 to AM bands.

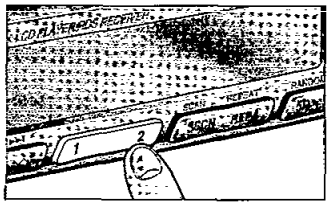
Preset Channel Indicator

Note: You can change the memory setting by repeating the above procedure.

Tuning in a Preset Station

Press any of the buttons 1 through 6 to tune in the station preset by the above steps ① to ③.





Auto Station Preset

Select a band, press and hold BND (AUTO • P) for more than 2 seconds.

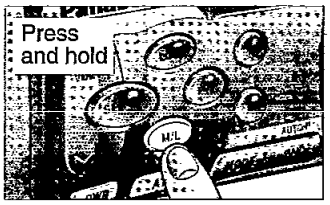
- The 6 strongest available stations will be automatically set in memory on preset buttons 1 through 6.
- Once set, the preset stations are sequentially scanned for 5 seconds each.
- Press the appropriate preset button for the station you want to hear.

Caution: For safety reasons, do not attempt to program while driving.

MONO/LOCAL Selection

- Much Interference is reduced during a weak FM stereo broadcasts when MONO is ON. (Only for FM mode)
- Searching stops automatically at a strong wave station only when LOCAL is ON.

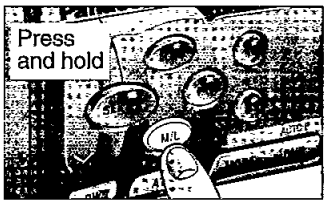
Press M/L (MONO/LOC) to switch the mode in the following order.



① During FM broadcasts

Press and hold M/L (MONO/LOC) to switch the mode in the following order. Release your finger at the desired mode.

MONO OFF LOCAL OFF ➡ MONO ON LOCAL OFF ➡ MONO ON LOCAL ON ➡ MONO OFF LOCAL ON



② During AM broadcasts

Press and hold M/L(MONO/LOC) to switch on or off the LOCAL mode as follows.

LOCAL OFF ⟷ LOCAL ON

RDS (Radio Data System) Reception

Many FM stations are broadcasting added data compatible with RDS. This radio set offers convenient functions using such data.

AF (Alternative Frequency)
When receiving condition becomes poor, an RDS station with the same program will be automatically selected.

EON (Enhanced Other Networks)
When EON data is received, the EON indicator lights and the TA and AF functions are expanded.
TA: Traffic information from not only the station now tuned in to but also other stations of the same network can be received.
AF: The frequency list of the RDS stations preset by received EON data is updated.

PS (Program Service Name)
When an RDS station is received, the RDS indicator lights and automatically displays the name of that station instead of the frequency. When D (DISP/CT) is pressed during PS display, the frequency is displayed for 3 seconds, then PS display returns.

PI (Program Identification)
If a preset RDS station is poor in receiving condition when it is selected, the automatic seek (PI Seek) starts to seek the same program and tune in to it.

PTY (Program Type)
Program type identification signal
Example : News, rock, classical music

TA (Traffic Announcement)
When an FM station that periodically provides the latest traffic information is received, the TP indicator lights. If TA ON is set, FM traffic information automatically interrupts your listening to a CD source until it ends, then you will listen again to whatever you have been listening to.

Best Station Research
If a preset RDS station is in poor condition of reception when you try to tune in to it, the best frequency is selected from the AF list of that station.

REG(Region)
The AF, Best Station Research, PI Seek functions will be as follows:
REG ON : The frequency changes only with the same regional program. This function is mainly used while driving in the same area, for example, in a city.
REG OFF: The frequency changes even with a different regional program if the station is in the same network. The broadcast may be different depending on the case. This function is mainly used when driving far from one region to another.

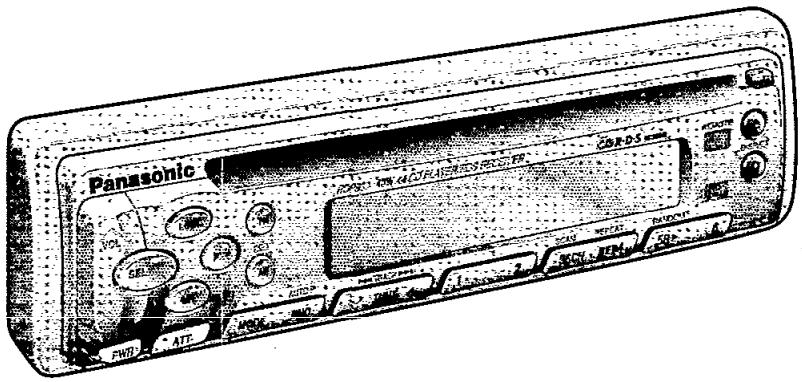
WHAT PROVIDES EON CAPABILITIES

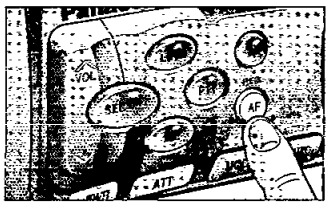
EON lets the radio set take advantage of RDS information much more than before. It constantly updates the AF list of all presets, including the station currently tuned in to. So, even if you change preset far from home, you will be able to receive the same station at an alternative frequency, or another station serving the same program if any. EON also keeps track of locally available TP stations for quick reception.

Note: When you're in "AF ON" mode, auto preset memory only works for RDS station. When in "TA on" mode, it only works for TP stations. To make auto preset for ordinary stations, cancel AF mode and switch to TA off in advance.

RDS (Radio Data System) Reception continued

A. Basic Operation in RDS Reception (PS, AF, CT, PI)



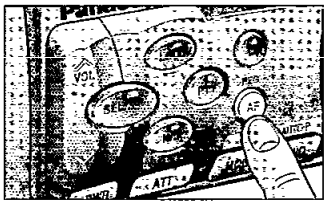


RDS Reception

Press AF when receiving a station in the FM1, FM2 or FM3 band.

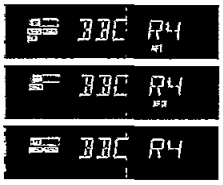
- The operating mode changes to AF ON or AF OFF, respectively.

- Select AF ON if you wish to use the AF network of an RDS station. Best station research is activated at the same time.
- Select AF OFF if the AF network of an RDS station is not necessary.



To Change AF Mode

Press AF to chage AF ON and activate Best Station Research at the same time. (3 seconds maximum)



····· AF 1 MODE

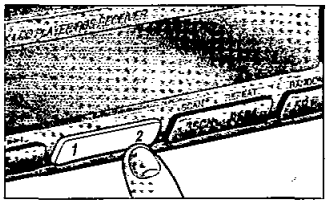
····· AF 2 MODE

····· AF OFF

Notes:

1. Default mode is AF1.
2. AF1 has a low level of AF operating sensitivity in urban areas. Therefore, AF dose not frequently operate even of sensitivity is temporarily lowered between skyscrapers, for examples.
3. AF2 is for suburban areas with a higher level of sensitivity than AF1.

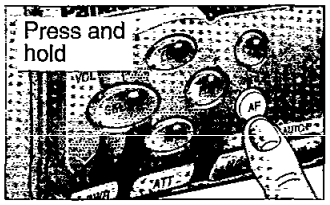
For Seek Tuning, RDS Station Preset, Tuning in a RDS preset station, and Auto RDS Station Preset, please refer to Radio Basics (Page 14 to 16).



RDS seek tuning (PI seek)

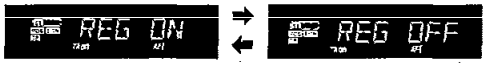
The PI seek function may be used if an RDS station selected from the memory is poor in receiving condition. Press the preset button again for the station now tuned in to.

PI Seek: *If Best Station Research fails in selecting the best station, the* PI seek function operates to automatically tune in to the same program.



Region (REG) Switching

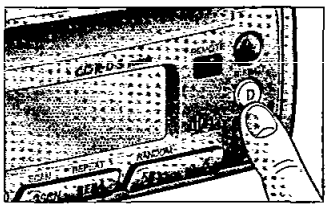
Press and hold AF(REG) for more than 2 seconds in AF mode to alternately select REG ON and REG OFF.



Note:

If you wish to stay with the same program, keep REG ON. If you keep REG OFF, there is a higher possibility of returning in to an AF station in better receiving condition.

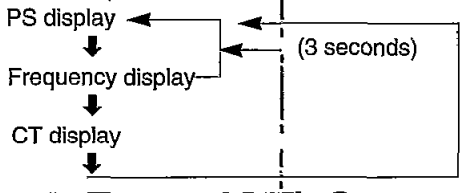
The relationship of the PI seek function with REG ON and REG OFF is as described above.



Changing Display

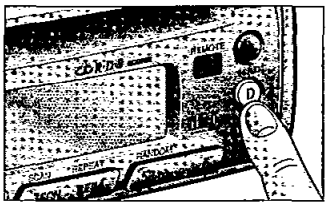
Press D(DISP/CT) to change the display as follows.

(Frequency display continues for only 3 seconds, returning to PS display after that.)



Clock Time (CT) System

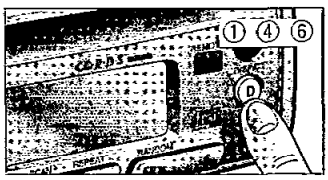
The CT (24-hour) system may not properly operate in areas where RDS CT service is not available. Once CT service is received, the CT system keeps operating. "NO CT" is displayed in areas where no CT service is available.

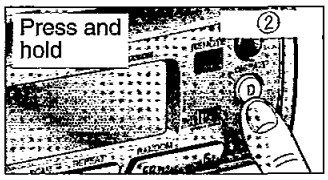


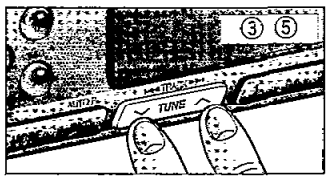
Clock Display

Press D (DISP/CT) to indicate the clock display.

RDS (Radio Data System) Reception continued







Initial Time Setting

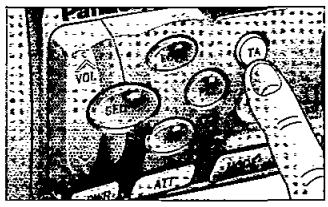
Press BND to change to AM mode.

① Press D (DISP/CT) "NO CT" is displayed.
② Press and hold D (DISP/CT) again for more than 2 seconds "hours" blinks indicating the time setting mode is activated.
③ To set hours, press "TUNE ∧" or "∨ TUNE".
④ Press D (DISP/CT) again for minutes setting.
⑤ To set minutes, press "TUNE ∧" or "∨ TUNE".
Hold "TUNE ∧" or " ∨ TUNE" change numbers rapidly.
⑥ When set the time, press D (DISP/CT).

Notes:

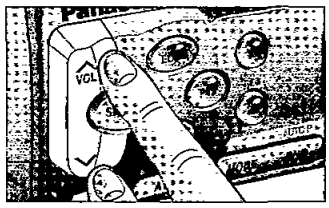
- If CT display is kept on, it remains on even if PWR and ACC are tuned off and back on again.
- In other mode, press and hold D (DISP/CT) for more than 2 seconds to get RDS CT-service.

B. TP Reception



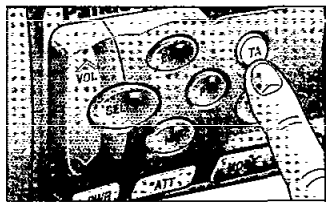
Select traffic information (TA on) mode

Press TA to switch ON and keep it there when you wish to listen to traffic information. Press TA to switch OFF when no traffic information is needed.



Volume Setting (Only for CD TA on mode)

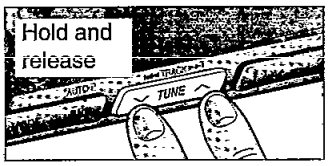
Adjust the volume as desired using "VOL∧" or "∨VOL" while receiving traffic announcement. (TA)
After volume for traffic announcement (TA) is set, the difference between normal volume and TA volume is automatically stored in the memory (up to 5 levels) so that next traffic information will be received at the preceding TA volume which may be higher or lower than normal volume.
Normal volume can be changed up to 5 levels upward or downward.
If an adjusted level of volume is over 40 or less than 0, any further change will not be made.



When receiving a station other than TP station (including EON stations)

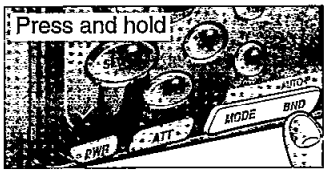
A traffic information station is automatically searched for and the radio automatically stops the next available TP station. EON Capabilities:
EON lets the radio take advantage of much more RDS information than before. It constantly updates the AF lists for all switch presets far from home, you will receive an alternative frequency for the same station, or another station carrying the same program, when such exists. EON also keeps track of locally available TP station.

Press TA.



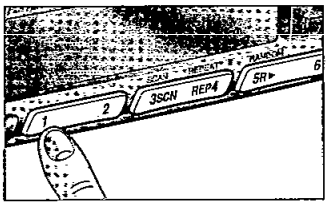
TP Seek Tuning

Press "∨TUNE" or "TUNE∧" for more than a half second, then release. The radio automatically stops on the next available TP station.



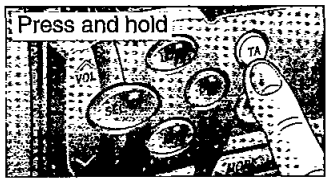
Auto TP Station Preset

Press and hold BND (AUTO·P) for more than 2 seconds until the display blinks in TA on. The six strongest available TP stations are automatically set in memory on the preset button 1 through 6.
Once set, the preset stations are sequentially scanned for 5 seconds each.



Tuning in a TP station preset

Press any of the preset buttons 1 through 6 that you want to hear. And then Best Station Research function is activated to automatically select the strongest available frequency for the TP station (through the built-in frequency) lists, if reception is weak.



Muting TA on

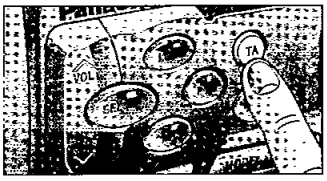
Press and hold TA for more than 2 seconds to light "TA on".
Then Traffic Announcement (TA) function is activated to operate, allowing you to listen to only Traffic Program whenever it is available.

Muting TA on canceling (Muting TA on → TA on)

Press TA again.
Press "VOL∧" to increase the volume level.

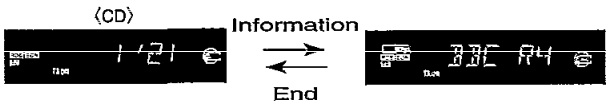
TP Auto Search

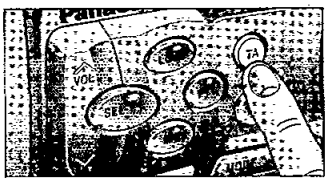
If receiving conditions are poor when TA is on during muting and if there is no other alternative frequency in the same network, a traffic announcement station in good receiving condition is automatically searched for.



CD TA on

Press TA during CD mode.
TA on mode is selected while listening to the source in that mode, wait for Traffic Announcement to being.





Switching to TA off Mode

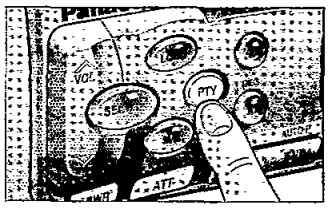
Select either one of the following steps.

- Press TA when TA is ON.
- Press and hold TA for more than 2 seconds when Muting TA is ON.
- Press TA when CD TA is ON.

RDS (Radio Data System) Reception continued

C. PTY Reception

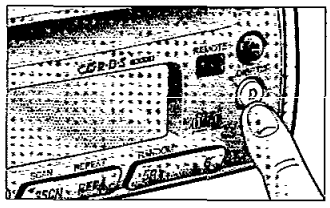
(There are some areas where PTY service may not be available.)



Switching to PTY mode

Press PTY to select PTY display mode, and the PTY of the broadcast now received is displayed.

"NO PTY " is show if there is no corresponding program type.

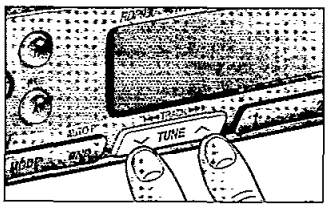


Changing PTY Display Language

Pressing D (DISP/CT) each time in PTY mode to alternate the language between English and Swedish.

Press D (DISP/CT).

<English> <Swedish>



Program Type Selection

Press "∨TUNE" or "TUNE∧" to select the program type in sequence as follows.

SPEECH – MUSIC – NEWS – AFFAIRS – INFO – SPORT – EDUCATE – DRAMA
CULTURES – SCIENCE – VARIED – POP M – ROCK M
M.O.R.M – LIGHT M – CLASSICS – OTHER M – WEATHER – FINANCE
CHILDREN – SOCIAL A – RELIGION – PHONE IN – TRAVEL – LEISURE
JAZZ – COUNTRY – NATIONAL – OLDIES – FOLK M – DOCUMENT

When the desired selection has been made, press BND. Then automatic seek will start to tune into the station broadcasting the selected program type.

Note :
Seek tuning does not operate as long as "NO PTY" is displayed.

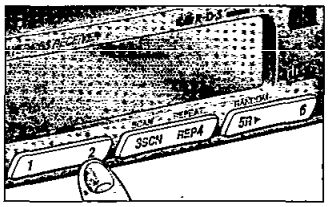
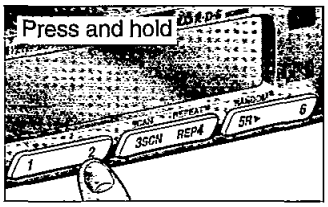


TABLE of PTY CODE and Program Type

Press any of the preset button 1 through 6 that you want to desire the program type. Those buttons are already stored program types as below. (Initial setting)

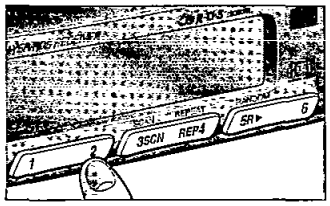
<PRESET PTY>

Preset NO.	1	2	3	4	5	6
Program Type	NEWS	SPEECH	SPORTS	POP. MUSIC	CLASSICS	MUSIC
Display	NEWS 1	SPEECH 2	SPORT 3	POP M 4	CLASSICS 5	MUSIC 6
	NEWS	AFFAIRS INFO EDUCATE DRAMA CULTURES SCIENCE VARIED WEATHER FINANCE CHILDREN SOCIAL A RELIGION PHONE IN TRAVEL LEISURE DOCUMENT	SPORTS	POP M	CLASSICS	ROCK M M.O.R.M LIGHT M OTHER M JAZZ COUNTRY NATIONAL OLDIES FOLK M



Program Type Preset

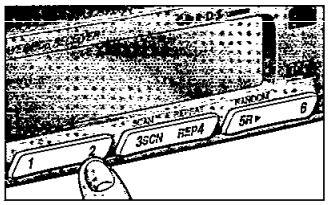
Press and hold one of the buttons 1 through 6 for more than 2 seconds to preset the desired program type selection in that button.



Tuning in a PTY Preset Station

Press any of the preset buttons 1 through 6 that you want to hear.

RDS (Radio Data System) Reception continued



Searching for PTY

① Select the desired station from among those preset in the preset number buttons 1 through 6. Then, the preset PTY and that preset number are displayed for 5 seconds.

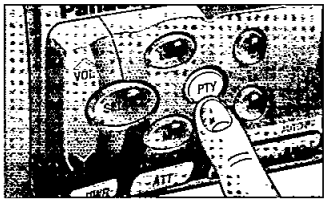
② While the desired type from 6 presets is displayed, take either of the following two steps.

A) Press the same preset button again.

B) Press BND.

If the desired PTY station is available, it is directly received. If it is not, "NO PTY" blinks and the radio returns to the station that was received before the search.

Press the same button again to cancel.



Canceling of PTY Mode

Press PTY to cancel.

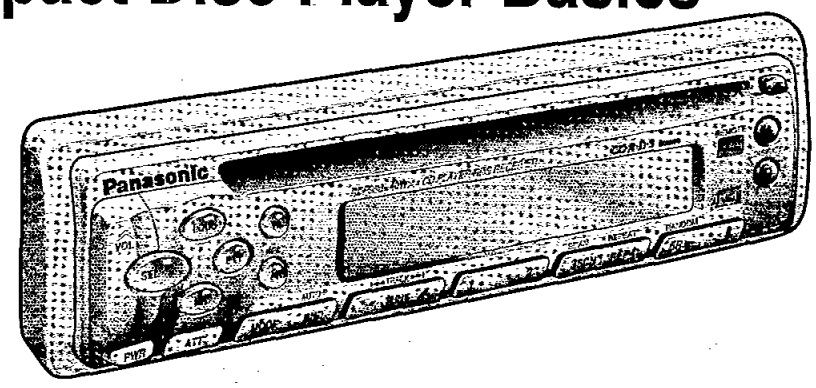
The set returns to the state existing before PTY mode while the receiving frequency remains unchanged.

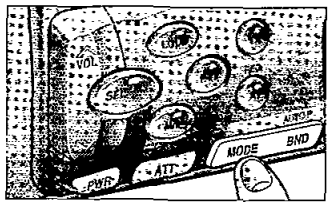
Emergency Announcement Reception

(Some areas are not covered by emergency announcement service.)

If an emergency announcement is broadcast during CD mode, the radio is automatically selected to receive the emergency announcement. "ALARM" blinks.

Compact Disc Player Basics





Mode Selection

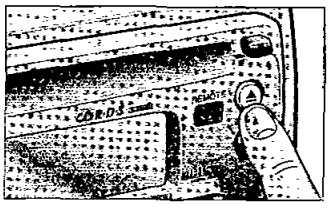
Press MODE to change into the CD player mode.

To start the CD Player

Insert the disc and playback starts automatically.

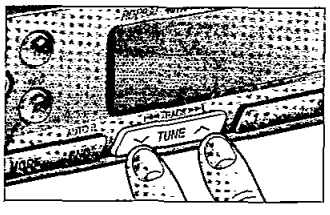
"CD LOAD" will be displayed until the disc is loaded. Play starts from first track.

Note: While the disc is inserted, " ⊙ " indicator will light.



Stopping and Ejecting a Disc

Press "⏏" to stop CD play, and the disc will quietly eject from the CD slot. (During disc ejection, "CD EJECT" will be displayed.)



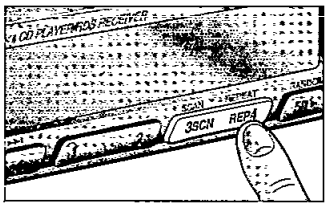
Selecting a Track

- Press "TRACK►►I" once to go to the next track.
- Press "I◄◄TRACK" once to play from the beginning of the track you are listening to. Press twice to play the previous track.
- Press repeatedly to skip the desired number of tracks.

Searching a Track

- Press and hold "TRACK►►I" or "I◄◄TRACK" for more than a half second to activate fast forward or reverse through a track.
- Release "TRACK►►I" or "I◄◄TRACK" to resume the normal CD play.

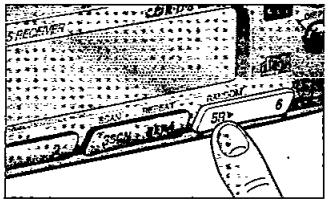
Compact Disc Player Basics continued



Repeating a Track

- Press REP4 (REREAT) to repeat the current selection.

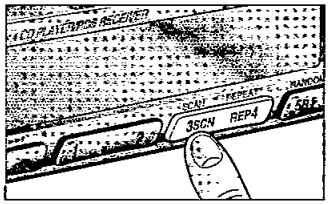
- Press REP4 (REREAT) again to cancel.



Random Selection

- Press 5 R► (RANDOM). A random selection of music is played from all available tracks.

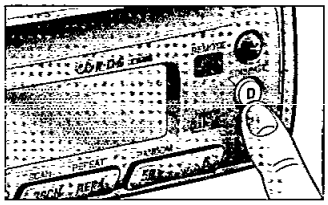
- Press 5 R► (RANDOM) again to cancel.



Scanning a Disc

- Press 3 SCN (SCAN). The display will blink and the first 10 seconds of each track on the disc play in order.

- Press 3 SCN (SCAN) again to cancel.



Changing the Display

Press D (DISP/CT) to switch the display in sequence as follows.

Track Number/ Track Play Time ⟷ Press D (DISP/CT). CT display

Error Display Messages

	Displays when the compact disc is dirty or upside down. The disc eject automatically. But, the disc may eject automatically, even if this error message is not displayed.
	Displays when compact disc is scratched. The disc eject automatically. But, the disc may eject automatically, even if this error message is not displayed.
	Displays when the compact disc stops operating for some reason. Please turn off the car engine (ACC off) and remove the fuse from yellow lead for 1 minute. Then reinstall the fuse.

Anti-Theft System

This unit is equipped with a removable face plate. By removing this face plate, the radio becomes totally inoperable. The security indicator will blink.

To Remove the Removable Face Plate

① Switch off the power.

② Press the release button (⏏). The removable face plate will be released.

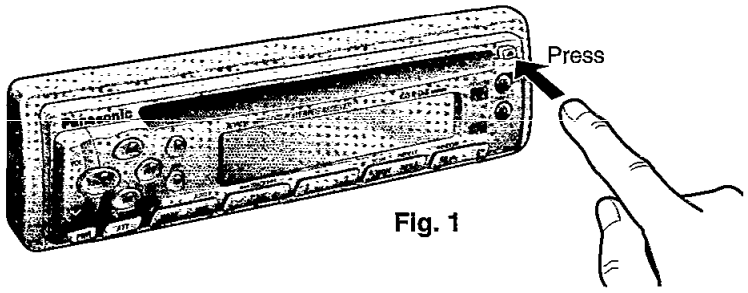


Fig. 1

③ Remove the removable face plate by pulling on the right side of the unit. Place the removable face plate in a supplied case.

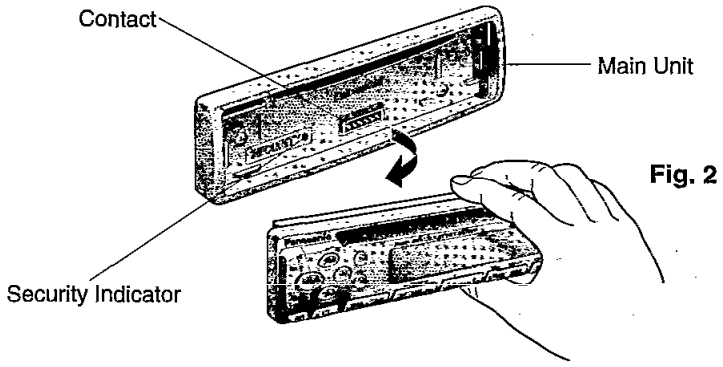


Fig. 2

④ As shown in Fig.3, insert the removable face plate with the arrow pointing toward the removable face plate case until you hear a "click". Keep the removable face plate in the case. Then, you can bring the plate safely.

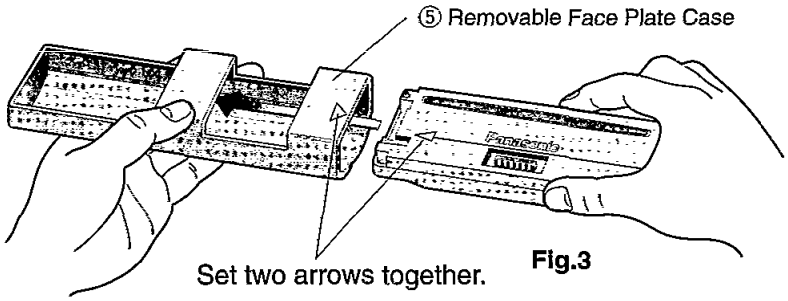


Fig.3

Anti-Theft System continued

To install the Removable Face Plate

① Slide the left side of the removable face plate in place.

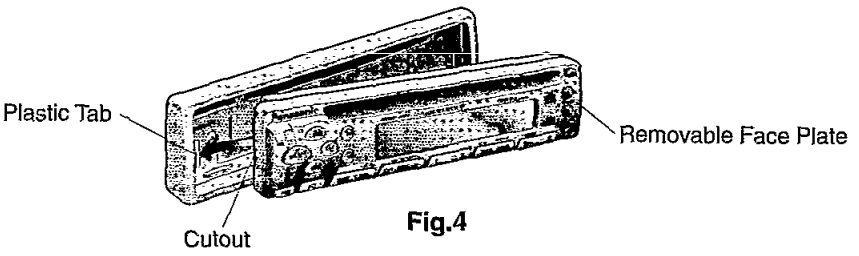


Fig.4

② Press the right end of removable face plate until "click" is heard.

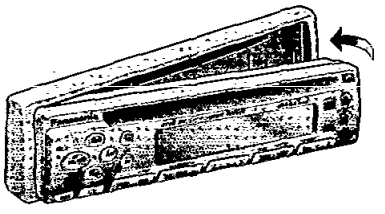


Fig.5

Caution:

1. Before removing the removable face plate, make sure the power is off.
2. This removable face plate is not water-proof. Do not expose it to water or excessive moisture.
3. Do not remove the removable face plate, while driving your car.
4. Do not place the removable face plate on the dashboard or nearby areas where the temperature rises to high levels.
5. Do not touch the contacts on the removable face plate or on the main unit, since this may result in poor electrical contacts.
6. If dirt or other foreign substances get on the contacts, wipe them with a clean, dry cloth.

Security Indicator

The security indicator blinks when the removable face plate is removed from the unit.

Activate and Security Indicator

1. Press and hold SEL for more than 2 seconds when the power is ON. "LED ON" is displayed, and the security indicator turn ON.

Note: The Security Indicator mode is inactivated when it is shipped.

2. To check whether the unit is set in the LED ON mode, make sure that the security indicator blinks when the removable face plate is removed.

Display	Security Indicator	Panel Removal Alarm
LED ON	Blinks	ON
↑↓	(Press and hold SEL for more than 2 seconds.)	
LED OFF	OFF	OFF

Installation

Preparation

- Before installation check the radio operation with antenna and speakers.
- Disconnect the cable from the negative (–) battery terminal (see caution below).

Caution:
For installation to cars with trip or navigational computers, all electronic memory settings previously registered in the computer will be lost when the battery terminal is disconnected. For this type of car, battery could not be disconnected. Therefore, extra care should be taken to prevent short circuitting.

In-dash Installation

Installation Opening
In-dash installation can be done if the car's dashboard has an opening for this unit as shown in Fig.
1. The car's dashboard should have a thickness of 4.5mm - 6mm in order to make the installation of the unit.

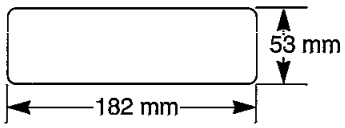
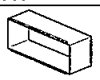
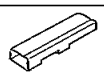


Fig. 1

Installation Precautions
This equipment, if possible, should be installed by a professional installer.

In case of difficulty, please consult your nearest authorized Panasonic Service Center.
1. This system is to be used only in a 12-volt, DC battery system (car) with negative ground.
2. Follow the electrical connection on page 33 carefully. Failure to do so may result in damage to the unit.
3. Connect the power lead after other connections are made.
4. Be sure to connect the YELLOW lead to the positive terminal (+) of the battery or fuse block (BAT) terminal.
5. Insulate all exposed wires to prevent short circuitting.
6. Secure all loose wires after installing the unit.
7. Please carefully read the operating and installation instructions of the respective equipment before connecting it to this unit.

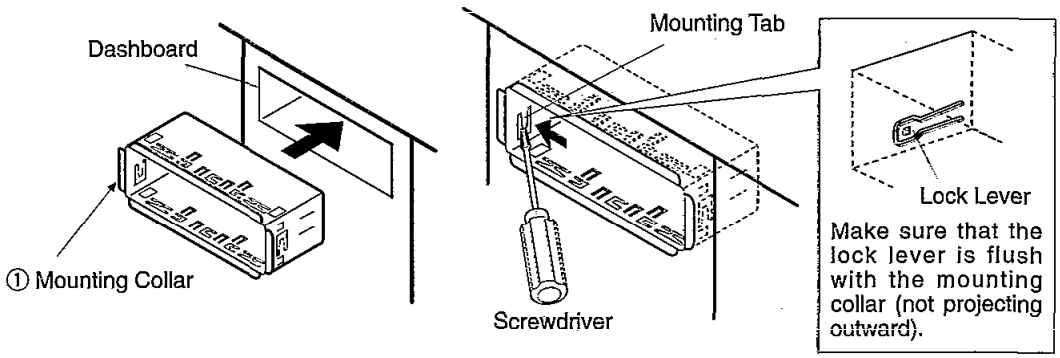
Supplied Hardwares

No.	Item	Diagram	Q'ty
①	Mounting Collar		1
②	ISO Anntena Adaptor		1
③	Mounting Bolt (5 mmϕ)		1
④	Power Connector		1
⑤	Removable Face Plate Case		1
⑥	Dismounting Plate		1

Installation Procedures

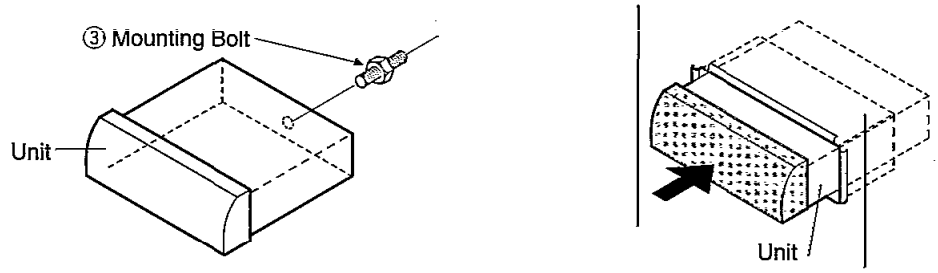
1. Secure the Mounting Collar ①.

Insert Mounting Collar ① into the car's dashboard, and bend mounting tabs out with a screwdriver.


Dashboard
① Mounting Collar
Mounting Tab
Screwdriver
Lock Lever
Make sure that the lock lever is flush with the mounting collar (not projecting outward).

2. Secure the rear of the unit.

a) Check the electrical connection by referring to this operating instructions.
b) Connect the Mounting Bolt ③, using a suitable wrench.
c) Insert the unit into Mounting Collar ① and push it in until "click" is heard.



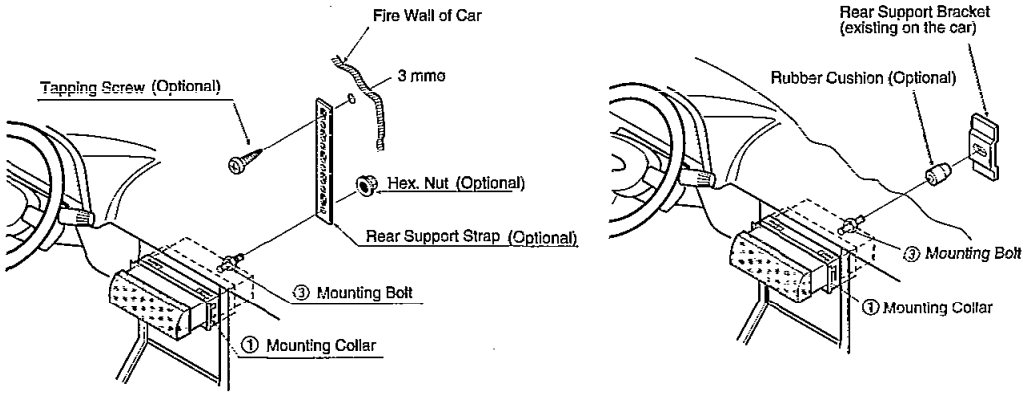
d) Secure the rear of the unit to the car by either of the two recommended methods.

■ Using the Rear Support Strap (Optional)

Affix one end of the Rear Support Strapt the rear of the unit, and the other end to the Fire Wall of Car, or some other metallic area.

■ Using the Rubber Cushion (Optional)

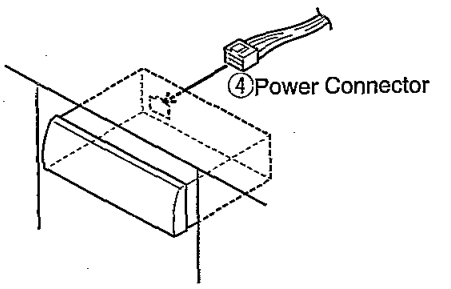
(If there is an existing Rear Support Bracket on the Fire Wall of Car.)
Cover Mounting Bolt on the rear of the unit with Rubber Cushion (Optional), and mount it into the existing Rear Support Bracket.



Installation continued

3. Plug the Power Connector ④.

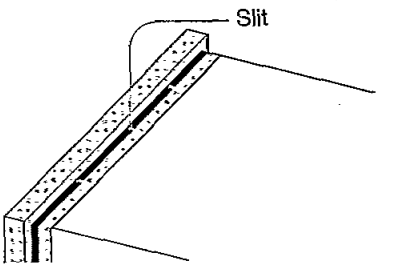
4. After installation reconnect the negative (—) battery terminal.



To remove the trim plate (for Japanese Cars)

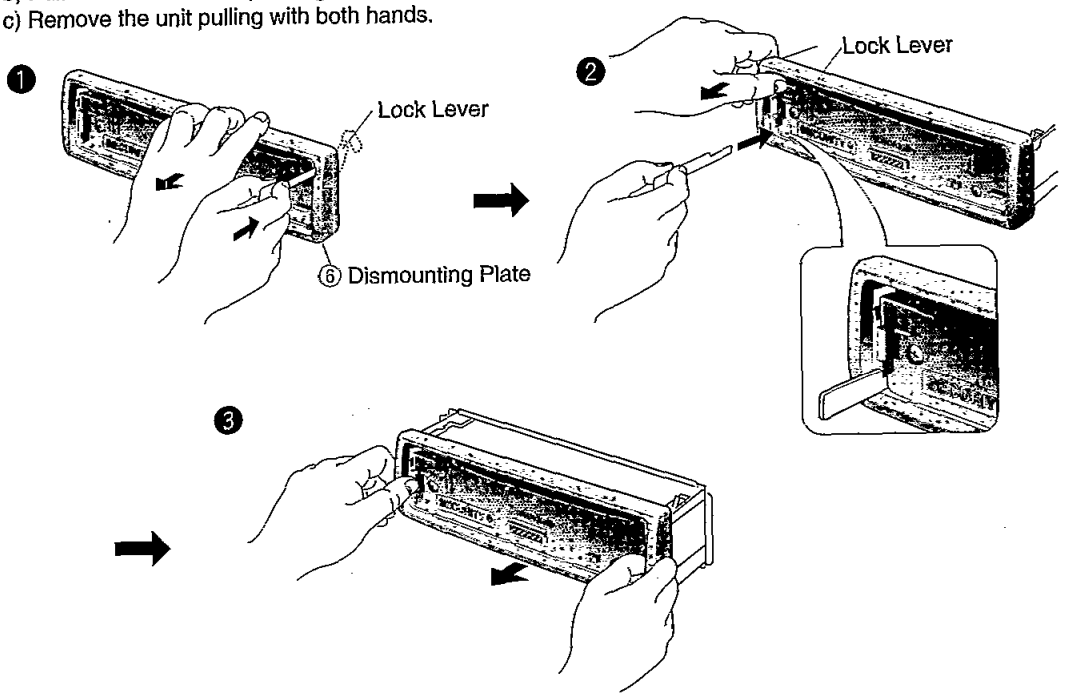
You may not be able to install this unit in some makes of Japanese cars. In such a case, consult your dealer.

To mount this unit on a Japanese car, first cut the 9 slits in back of the trim plate with side-cut pliers, remove the trim plate, then mount this unit.



To Remove the Unit

a) Remove the removable face plate. (See page 27.)
b) Pull out the unit while pushing the lock lever using Dismounting Plate ⑥.
c) Remove the unit pulling with both hands.

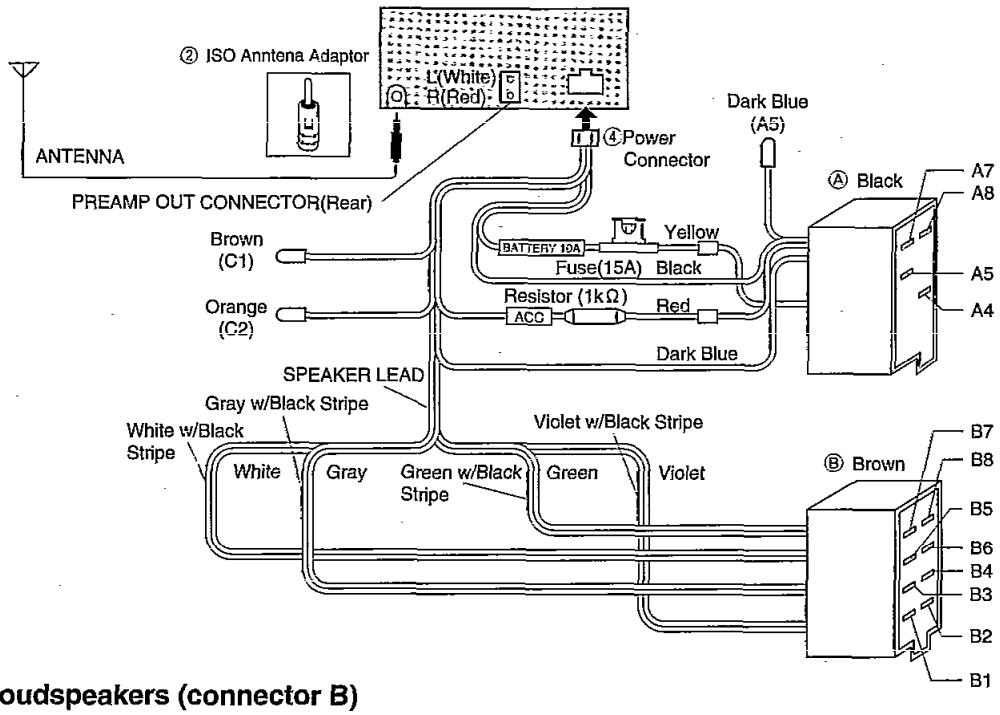


Note: Do not lose the Dismounting Plate. It will be needed to remove the unit from the car's dashboard.

Electrical Connection

Caution:
- Confirm the note on page 4, and make connections to the connectors on car side.
- To prevent damage to the unit, be sure to follow the connection diagram below.
- Remove the covering of the leads about 5 mm long from their end before connecting. (The cords except for ISO connector's cords)
- Do not insert the power connector into the unit until the wiring is completed.
- Be sure to insulate any exposed wires from a possible short-circuit from the car chassis. Bundle all cables and keep cable terminals free from touching any metal parts.

CQ-RDP930/RDP920LEN



Loudspeakers (connector B)

	Left +	Left –	Right +	Right –
Front	B5 (White)	B6 (White w/Black Stripe)	B3 (Gray)	B4 (Gray w/Black Stripe)
Rear	B7 (Green)	B8 (Green w/Black Stripe)	B1 (Violet)	B2 (Violet w/Black Stripe)

A4

BATTERY LEAD (To Battery of Car) (Yellow)
Connect to the "BAT" terminal on the fuse block of the car. The power should be supplied continuously to the yellow leads regardless of the on/off position of the ignition key.

A5

MOTOR ANTENNA RELAY CONTROL LEAD (Dark Blue)
(To Motor Antenna) (Max. 500mA)
This lead is not intended for use with switch actuated power antenna.
AMP·RELAY CONTROL POWER LEAD
This lead is for connection to Panasonic power amplifier.

A7

POWER LEAD (Red)
Connect to the "radio" power line of the car or to the "IGN" or "ACC" terminal of the fuse block.

A8

GROUND LEAD (Black)
Connect to a well grounded metallic part of your car.

C1

Not Used.

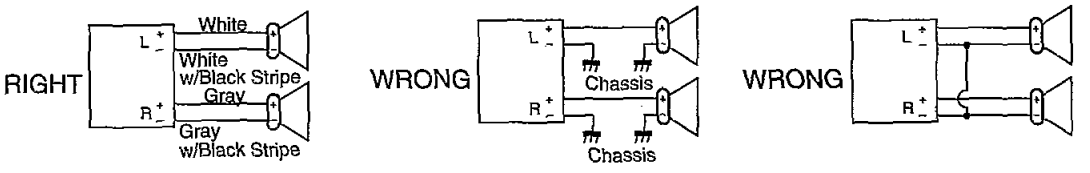
C2

TELEPHONE MUTE LEAD (Orange)
(To car telephone mute line)
TELEPHONE MUTE
The telephone mute lead, if connected to the car telephone mute line, will activate the muting circuit and the sound from the speakers cannot be heard while the telephone conversation is in progress.
Note: *This telephone mute lead is for connection only to the radio mute line. Be sure to ascertain this because it will not work with other type of output system.*

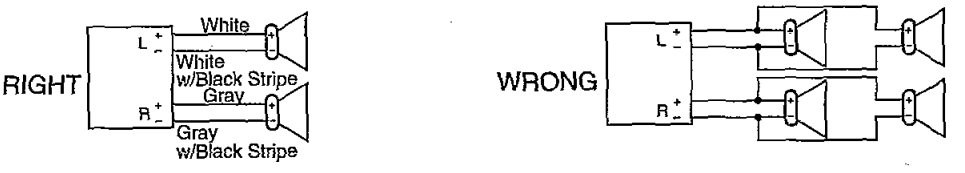
Speaker Connections

Caution:
1. Use ungrounded speakers only.
2. The speakers to be used with this unit should be able to handle more than 40W of audio power. If an optional amplifier is used, the speakers should be able to handle the maximum output power of the amplifier. Use of speakers with small input ratings can cause damage to the speakers.
3. The speaker impedance should be 4 - 8 ohms. If the impedance is too large or too small, it affects the output and may cause damage to the speakers or this unit.
4. Do not use 3-wire type speaker system having a common earth lead. Never connect the speaker cord to the body of the car. This unit uses the BTCL circuit, so each speaker should be connected separately using parallel vinyl insulated cords.
5. The speaker cords and the power amplifier unit should be kept away (about 30cm apart) from the antenna and antenna extension cord.
6. Follow the connection diagram below carefully. Failure to do so may cause damage to both unit and speakers.

- **Unit will be damaged if speakers (Front, Rear) are not connected properly.**



- **Do not connect more than one speaker to one set of speaker leads.**



Special Notes

Notes on Compact Discs

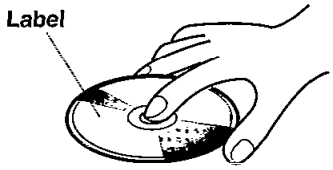
ONLY USE DISCS CARRYING LABEL SHOWN ON THE RIGHT

COMPACT disc DIGITAL AUDIO

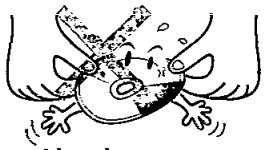
- Dirt, dust, scratches and bending of disc will cause misoperation. Handle discs with care.
- Do not place stickers or make scratches on disc.
- Do not bend discs.
- Disc should always be kept in the case when not in use to prevent from damaging.
- Do not place discs in the following places:
  1. Direct sunlight;
  2. Dirty, dusty and damp areas;
  3. Near car heaters;
  4. Seats and dashboard.

Disc Cleaning

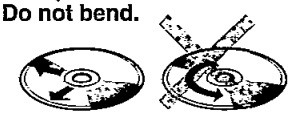
Use a dry soft cloth to wipe the surface. If the disc is quite dirty use a soft cloth slightly dampened in isopropyl (rubbing) alcohol. Never use solvents such as benzine, thinner, conventional record cleaner, or mopper as they may mar the surface of the disc.



Do not touch the underside of the disc.



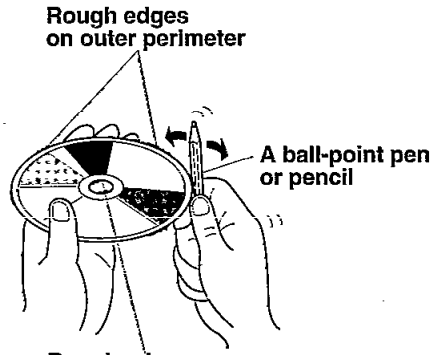
Do not bend.



Wipe the disc from center to outside direction.

Caution for use of a new Disc

A new disc may have rough edges on its inner and outer perimeter. If a disc with rough edges is used, proper setting will not be possible and the CD player will not play the disc. Therefore, remove the rough edges in advance by using a ball-point pen or pencil as shown on right. To remove the rough edges, press the side of the pen or pencil against the inner and outer perimeter of the disc.



Fuse

Be sure to use a fuse of the specified rating (15A) when replacing a blown fuse. Fuses with higher capacity ratings, use of any substitute, or connection without a fuse may result in a fire hazard or damage to the unit. If the replacement fuse fails, consult your nearest authorized Panasonic Service Center.

Maintenance

To clean the exterior of this unit, use a soft cloth to wipe the surface. Do not use benzine, thinner or any other type of solvents.

Specifications

General

Power Supply	: DC 12V (11V - 16V), Test Voltage 14.4V, Negative Ground
Tone Controls	: Bass; ± 12dB at 100Hz Treble; ± 12dB at 10kHz
Current Consumption	: Less than 2.5A (CD mode, 0.5W 4-Speaker)
Maximum Power Output	: 40W x 4 (at 4Ω)
Power Output	: 20W x 4 (DIN45 324, at 4Ω)
Speaker Impedance	: 4 - 8Ω
Dimensions (Main unit)	: 178(W) x 50(H) x 150(D) mm
Weight (Main unit)	: 1.4 kg

FM Stereo Radio

Frequency Range	: 87.5 - 108MHz
Usable Sensitivity	: 6dB/μV(S/N 30dB)
Stereo Separation	: 35 dB(at 1kHz)

MW Radio

Frequency Range	: 531 - 1,602kHz
Usable Sensitivity	: 28dB/μV (S/N 20dB)

LW Radio

Frequency Range	: 153 - 279kHz
Usable Sensitivity	: 32dB/μV (S/N 20dB)

CD Player

Sampling Frequency	: 32 times oversampling
DA Converter	: MASH•1bit/4 DAC System
Error Correction System	: Panasonic Super Decoding Algorithm
Pick-Up Type	: 3-beam
Light Source	: Semiconductor laser
Wavelength	: 780 nm
Frequency Response	: 20 Hz - 20,000 Hz (±1 dB)
Signal to Noise Ratio	: 98 dB
Total Harmonic Distortion	: 0.01%(1 kHz)
Wow and Flutter	: Below measurable limits
Channel Separation	: 75 dB

Note:
Specifications and the design are subject to possible modification without notice due to improvements.